



PTO/SB/08a/b (08-03)
Approved for use through 07/31/2008. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | |
|---|---|----|---|--------------------------|------------------|
| Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 10/758,672 |
| | | | | Filing Date | January 15, 2004 |
| | | | | First Named Inventor | Hui-Quan Han |
| | | | | Art Unit | 1644-1652 |
| | | | | Examiner Name | Not Yet Assigned |
| Sheet | 1 | of | 2 | Attorney Docket Number | 01017/35966B |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|--------------------------|--|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number-Kind Code ² (if known) | | | |
| ES | A1 | 5,861,312 | 09-19-1999 | Varshavsky et al. | |
| ES | A2 | 6,706,505 | 03-16-2004 | Han et al. | |

| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|--------------------------|---|-----------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | |
| ES | B1 | WO 98/23283 | 06-04-1998 | | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS | | | | | |
|---------------------------------|--------------------------|---|--|--|----------------|
| Examiner Initials | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | T ² |
| ES | C1 | BARACOS et al., "Activation of the ATP-ubiquitin-proteasome pathway in skeletal muscle of cachectic rats bearing a hepatoma", <i>Am J Physiol</i> 268 (Endocrinol Metab):E996-1006, 1995. | | | |
| ES | C2 | BARTEL et al., "The recognition component of the N-end rule pathway" <i>EMBO J</i> 9:3179-3189, 1990. | | | |
| ES | C3 | CIECHANOVER, "The ubiquitin-proteasome pathway: on protein death and cell life", <i>EMBO J</i> 17:7151-7160, 1998. | | | |
| ES | C4 | HILLIER et al., Database GenBank, Accession No. AI929033, Aug. 23, 1999. | | | |
| ES | C5 | KWON et al., "The mouse and human genes encoding the recognition component of the N-end rule pathway", <i>Proc Natl Acad Sci USA</i> 95:7898-7903, 1998. | | | |
| ES | C6 | LECKER et al., "Muscle protein breakdown and the critical role of the ubiquitin-proteasome pathway in normal and disease states", <i>J Nutr</i> 129:227S-237S, 1999. | | | |
| ES | C7 | MATSUMOTO et al., "Tumor inoculation site-dependent induction of cachexia in mice bearing colon 26 carcinoma", <i>Brit J Cancer</i> 79:764-769, 1999. | | | |
| ES | C8 | MITCH et al., "Mechanisms of muscle wasting: the role of ubiquitin-proteasome pathway", <i>New England J Med</i> 335:1897-1905, 1996. | | | |
| ES | C9 | REISS et al., "Affinity purification of ubiquitin-protein ligase on immobilized protein substrates", <i>J Biol Chem</i> 265:3685-3690, 1990. | | | |
| ES | C10 | SOLOMON et al., "Rates of ubiquitin conjugation increase when muscles atrophy, largely through activation of the N-end rule pathway", <i>Proc Natl Acad Sci USA</i> 95:12602-12607, 1998. | | | |
| ES | C11 | STRAUSBERG et al. Database GenBank, Accession No. AI361043, Feb. 15, 1999. | | | |
| ES | C12 | TANAKA et al., "Experimental cancer cachexia induced by transplantable colon 26 adenocarcinoma in mice", <i>Cancer Res</i> 50: 2290-2295, 1990. | | | |
| ES | C13 | WILSON et al., "2.2 Mb of contiguous nucleotide sequence from chromosome III of <i>C. elegans</i> ", <i>Nature</i> 368:32-38, 1994. | | | |

| | | | |
|-----------------------|-----------------|--------------------|---------|
| Examiner Signature | E. Stobodjensky | Date Considered | 11/4/05 |
|-----------------------|-----------------|--------------------|---------|

* Did not receive

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | |
|--|---|----|---|--------------------------|------------------|
| Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 10/758,672 |
| | | | | Filing Date | January 15, 2004 |
| | | | | First Named Inventor | Hui-Quan Han |
| | | | | Art Unit | 4644 1652 |
| | | | | Examiner Name | Not Yet Assigned |
| Sheet | 2 | of | 2 | Attorney Docket Number | 01017/35966B |

| | | | |
|----|-----|---|--|
| ES | C14 | Database GenBank. National Library of Medicine, (Bethesda, Maryland, US), Accession No. U88308, The C. elegans Sequencing Consortium, "Genome sequence of the nematode C. elegans: a platform for investigating biology: the C. elegans sequencing consortium", Science 282:2012-2018, 1998. | |
| ES | C15 | Database GenBank. National Library of Medicine, (Bethesda, Maryland, US), Accession No. AF061555, Kwon et al., "The mouse and human genes encoding the recognition component of the N-end rule pathway", Proc Natl Acad Sci, USA 95:7898-7903, 1998. | |
| ES | C16 | Database GenBank. National Library of Medicine, (Bethesda, Maryland, US), Accession No. AI187306, Strausberg, qf28h08.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1751391 3', mRNA sequence; National Cancer Institute, Cancer Genome Anatomy Project, 1997. | |
| ES | C17 | Database GenBank. National Library of Medicine, (Bethesda, Maryland, US), Accession No. AI192195, Strausberg, qc92e08.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:1721702 3' similar to TR:O15057 O15057 KIAA0349; mRNA sequence; National Cancer Institute, Cancer Genome Anatomy Project, 1997. | |
| ES | C18 | Database GenBank. National Library of Medicine, (Bethesda, Maryland, US), Accession No. AI400279, Strausberg, tg43b12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2111519 3', mRNA sequence; National Cancer Institute, Cancer Genome Anatomy Project, 1997. | |
| ES | C19 | Database GenBank. National Library of Medicine, (Bethesda, Maryland, US), Accession No. AA002347, Marra et al., mg53g07.r1 Soares mouse embryo NbME13.5 14.5 Mus musculus cDNA clone IMAGE:427548 5' similar to gb:U24428 Mus musculus mu-class glutathione s-transferase (MOUSE); mRNA sequence, The WashU-HHMI Mouse EST Project, 1996. | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

| | | | |
|--------------------|-----------------|-----------------|---------|
| Examiner Signature | E. Stobodyansky | Date Considered | 11/4/00 |
|--------------------|-----------------|-----------------|---------|